

FIG. 1A

1/10

1a	2a	3a	4a	5a	6a	7a	8a	9a	10a	11a	12a	13a
Thr	Phe	Gly	Ser	Gly	Glu	Ala	Asp	Cys	Gly	Leu	Arg	Pro
ACC	TTT	GGC	TCG	GGA	GAG	GCA	GAC	TGT	GGG	CTG	CGA	CCT
TGG	AAA	CCG	AGC	CCT	CTC	CGT	CTG	ACA	CCC	GAC	GCT	GGA
14a	15a	16a	17a	18a	19a	20a	21a	22a	23a	24a	25a	26a
Leu	Phe	Glu	Lys	Lys	Ser	Leu	Glu	Asp	Lys	Thr	Glu	Arg
CTG	TTC	GAG	AAG	AAG	TCG	CTG	GAG	GAC	AAA	ACC	GAA	AGA
GAC	AAG	CTC	TTC	TTC	AGC	GAC	CTC	CTG	TTT	TGG	CTT	TCT
27a	28a	29a	30a	31a	32a	33a	34a	35a	36a	1	2	3
Glu	Leu	Leu	Glu	Ser	Tyr	Ile	Asp	Gly	Arg	Ile	Val	Glu
GAG	CTC	CTG	GAA	TCC	TAC	ATC	GAC	GGG	CGC	ATT	GTG	GAG
CTC	GAG	GAC	CTT	AGG	ATG	TAG	CTG	CCC	GCG	TAA	CAC	CTC
4	5	6	7	8	9	10	11	12	13	14	15	16
Gly	Ser	Asp	Ala	Glu	Ile	Gly	Met	Ser	Pro	Trp	Gln	Val
GGC	TCG	GAT	GCA	GAG	ATC	GGC	ATG	TCA	CCT	TGG	CAG	GTG
CCG	AGC	CTA	CGT	CTC	TAG	CCG	TAC	AGT	GGA	ACC	GTC	CAC
17	18	19	20	21	22	23	24	25	26	27	28	29
Met	Leu	Phe	Arg	Lys	Ser	Pro	Gln	Gln	Leu	Leu	Cys	Gly
ATG	CTT	TTC	CGG	AAG	AGT	CCC	CAG	GAG	CTG	CTG	TGT	GGG
TAC	GAA	AAG	GCC	TTC	TCA	GGG	GTC	CTC	GAC	GAC	ACA	CCC
30	31	32	33	34	35	36	37	38	39	40	41	42
Ala	Ser	Leu	Ile	Ser	Asp	Arg	Trp	Val	Leu	Thr	Ala	Ala
GCC	AGC	CTC	ATC	AGT	GAC	CGC	TGG	GTC	CTC	ACC	GCC	GCC
CGG	TCG	GAG	TAG	TCA	CTG	GCG	ACC	CAG	GAG	TGG	CGG	CGG
43	44	45	46	47	48	49	50	51	52	53	54	55
His	Cys	Leu	Leu	Tyr	Pro	Pro	Trp	Asp	Lys	Asn	Phe	Thr
CAC	TGC	CTC	CTG	TAC	CCG	CCC	TGG	GAC	AAG	AAC	TTC	ACC
GTG	ACG	GAG	GAC	ATG	GGC	GGG	ACC	CTG	TTC	TTG	AAG	TGG
56	57	58	59	60	61	62	63	64	65	66	67	68
Glu	Asn	Asp	Leu	Leu	Val	Arg	Ile	Gly	Lys	His	Ser	Arg
GAG	AAT	GAC	CTT	CTG	GTG	CGC	ATT	GGC	AAG	CAC	TCC	CGC
CTC	TTA	CTG	GAA	GAC	CAC	GCG	TAA	CCG	TTC	GTG	AGG	GCG

FIG. 1B

2/10

69	70	71	72	73	74	75	76	77	78	79	80	81
Thr	Arg	Tyr	Glu	Arg	Asn	Ile	Glu	Lys	Ile	Ser	Met	Leu
ACC	AGG	TAC	GAG	CGA	AAC	ATT	GAA	AAG	ATA	TCC	ATG	TTG
TGG	TCC	ATG	CTC	GCT	TTG	TAA	CTT	TTC	TAT	AGG	TAC	AAC
82	83	84	85	86	87	88	89	90	91	92	93	94
Glu	Lys	Ile	Tyr	Ile	His	Pro	Arg	Tyr	Asn	Trp	Arg	Glu
GAA	AAG	ATC	TAC	ATC	CAC	CCC	AGG	TAC	AAC	TGG	CGG	GAG
CTT	TTC	TAG	ATG	TAG	GTG	GGG	TCC	ATG	TTG	ACC	GCC	CTC
95	96	97	98	99	100	101	102	103	104	105	106	107
Asn	Leu	Asp	Arg	Asp	Ile	Ala	Leu	Met	Lys	Leu	Lys	Lys
AAC	CTG	GAC	CGG	GAC	ATT	GCC	CTG	ATG	AAG	CTG	AAG	AAG
TTG	GAC	CTG	GCC	CTG	TAA	CGG	GAC	TAC	TTC	GAC	TTC	TTC
108	109	110	111	112	113	114	115	116	117	118	119	120
Pro	Val	Ala	Phe	Ser	Asp	Tyr	Ile	His	Pro	Val	Cys	Leu
CCT	GTT	GCC	TTC	AGT	GAC	TAC	ATT	CAC	CCT	GTG	TGT	CTG
GGA	CAA	CGG	AAG	TCA	CTG	ATG	TAA	GTG	GGA	CAC	ACA	GAC
121	122	123	124	125	126	127	128	129	130	131	132	133
Pro	Asp	Arg	Glu	Thr	Ala	Ala	Ser	Leu	Leu	Gln	Ala	Gly
CCC	GAC	AGG	GAG	ACG	GCA	GCC	AGC	TTG	CTC	CAG	GCT	GGA
GGG	CTG	TCC	CTC	TGC	CGT	CGG	TCG	AAC	GAG	GTC	CGA	CCT
134	135	136	137	138	139	140	141	142	143	144	145	146
Tyr	Lys	Gly	Arg	Val	Thr	Gly	Trp	Gly	Asn	Leu	Lys	Glu
TAC	AAG	GGG	CGG	GTG	ACA	GGC	TGG	GGC	AAC	CTG	AAG	GAG
ATG	TTC	CCC	GCC	CAC	TGT	CCG	ACC	CCG	TTG	GAC	TTC	CTC
147	148	149	150	151	152	153	154	155	156	157	158	159
Thr	Trp	Thr	Ala	Asn	Val	Gly	Lys	Gly	Gln	Pro	Ser	Val
ACG	TGG	ACA	GCC	AAC	GTT	GGT	AAG	GGG	CAG	CCC	AGT	GTC
TGC	ACC	TGT	CGG	TTG	CAA	CCA	TTC	CCC	GTC	GGG	TCA	CAG
160	161	162	163	164	165	166	167	168	169	170	171	172
Leu	Gln	Val	Val	Asn	Leu	Pro	Ile	Val	Glu	Arg	Pro	Val
CTG	CAG	GTG	GTG	AAC	CTG	CCC	ATT	GTG	GAG	CGG	CCG	GTC
GAC	GTC	CAC	CAC	TTG	GAC	GGG	TAA	CAC	CTC	GCC	GGC	CAG

FIG. 1C
3/10

173	174	175	176	177	178	179	180	181	182	183	184	185
Cys	Lys	Asp	Ser	Thr	Arg	Ile	Arg	Ile	Thr	Asp	Asn	Met
TGC	AAG	GAC	TCC	ACC	CGG	ATC	CGC	ATC	ACT	GAC	AAC	ATG
ACG	TTC	CTG	AGG	TGG	GCC	TAG	GCG	TAG	TGA	CTG	TTG	TAC
186	187	188	189	190	191	192	193	194	195	196	197	198
Phe	Cys	Ala	Gly	Tyr	Lys	Pro	Asp	Glu	Gly	Lys	Arg	Gly
TTC	TGT	GCT	GGT	TAC	AAG	CCT	GAT	GAA	GGG	AAA	CGA	GGG
AAG	ACA	CGA	CCA	ATG	TTC	GGA	CTA	CTT	CCC	TTT	GCT	CCC
199	200	201	202	203	204	205	206	207	208	209	210	211
Asp	Ala	Cys	Glu	Gly	Asp	Ser	Gly	Gly	Pro	Phe	Val	Met
GAT	GCC	TGT	GAA	GGT	GAC	AGT	GGG	GGA	CCC	TTT	GTC	ATG
CTA	CGG	ACA	CTT	CCA	CTG	TCA	CCC	CCT	GGG	AAA	CAG	TAC
212	213	214	215	216	217	218	219	220	221	222	223	224
Lys	Ser	Pro	Phe	Asn	Asn	Arg	Trp	Tyr	Gln	Met	Gly	Ile
AAG	AGC	CCC	TTT	AAC	AAC	CGC	TGG	TAT	CAA	ATG	GGC	ATC
TTC	TCG	GGG	AAA	TTG	TTG	GCG	ACC	ATA	GTT	TAC	CCG	TAG
225	226	227	228	229	230	231	232	233	234	235	236	237
Val	Ser	Trp	Gly	Glu	Gly	Cys	Asp	Arg	Asp	Gly	Lys	Tyr
GTC	TCA	TGG	GGT	GAA	GGC	TGT	GAC	CGG	GAT	GGG	AAA	TAT
CAG	AGT	ACC	CCA	CTT	CCG	ACA	CTG	GCC	CTA	CCC	TTT	ATA
238	239	240	241	242	243	244	245	246	247	248	249	250
Gly	Phe	Tyr	Thr	His	Val	Phe	Arg	Leu	Lys	Lys	Trp	Ile
GGC	TTC	TAC	ACA	CAT	GTG	TTC	CGC	CTG	AAG	AAG	TGG	ATA
CCG	AAG	ATG	TGT	GTA	CAC	AAG	GCG	GAC	TTC	TTC	ACC	TAT
251	252	253	254	255	256	257	258	259				
Gln	Lys	Val	Ile	Asp	Gln	Phe	Gly	Glu				
CAG	AAG	GTC	ATT	GAT	CAG	TTT	GGA	GAG				
GTC	TTC	CAG	TAA	CTA	GTC	AAA	CCT	CTC				

FIG. 2A

4/10

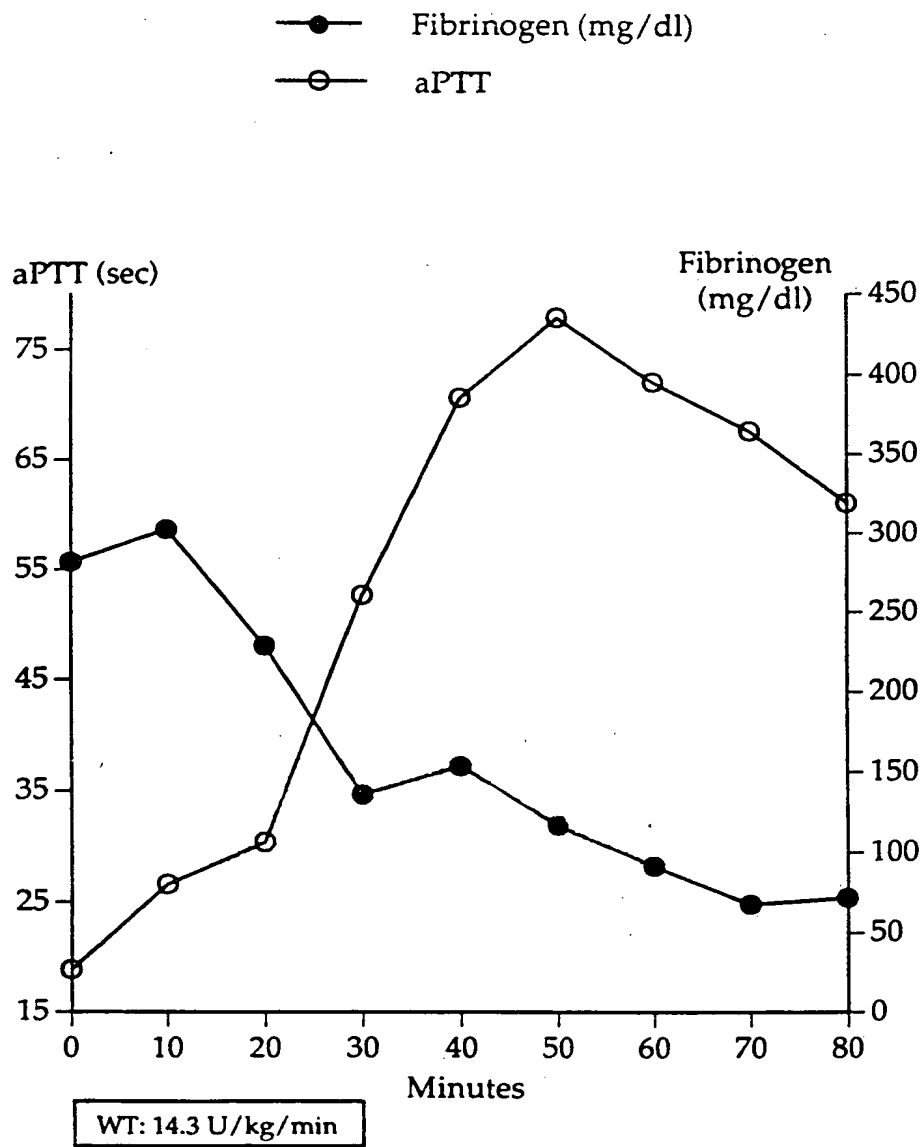
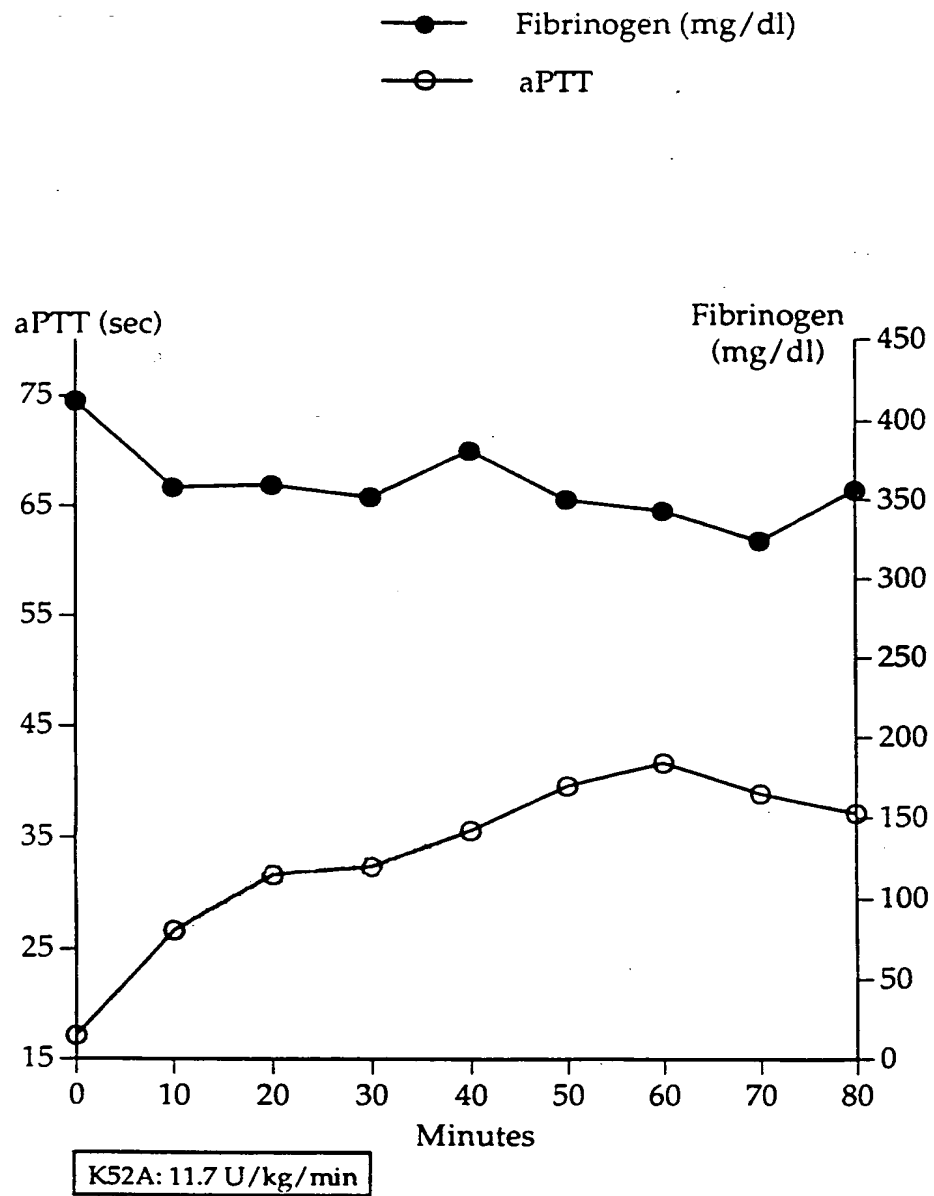


FIG. 2B

5/10



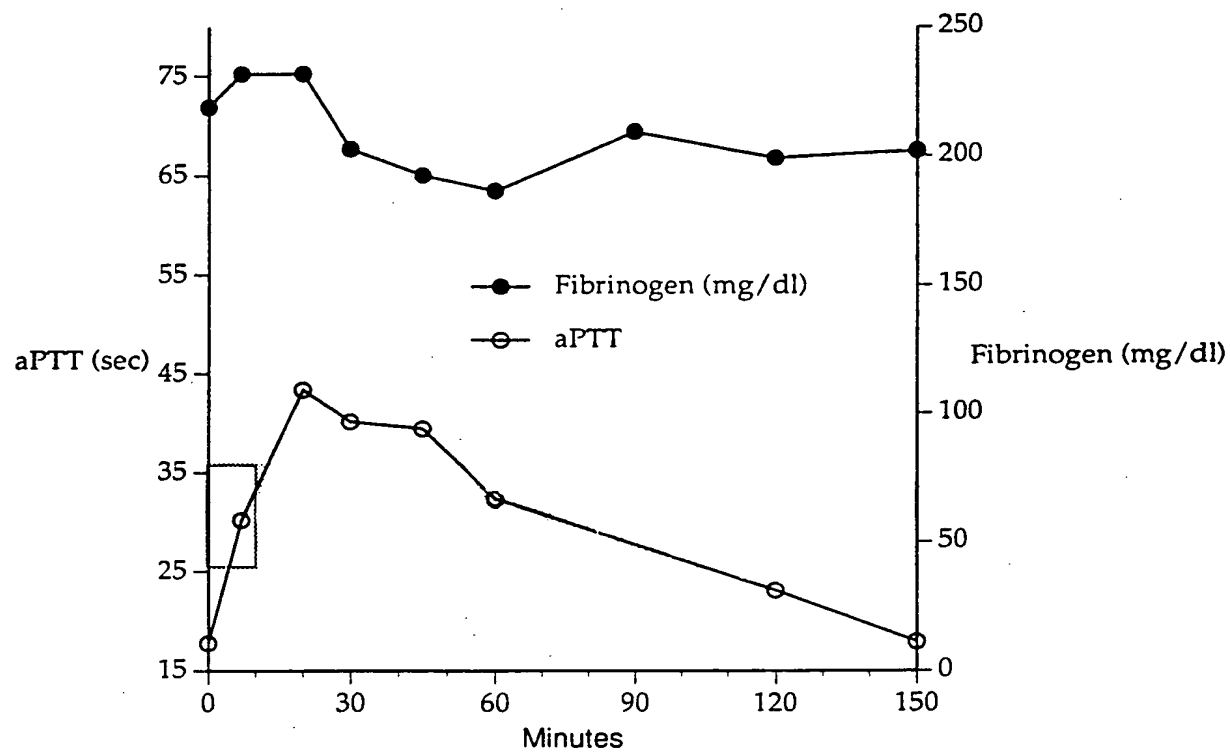


Figure 3

7/10

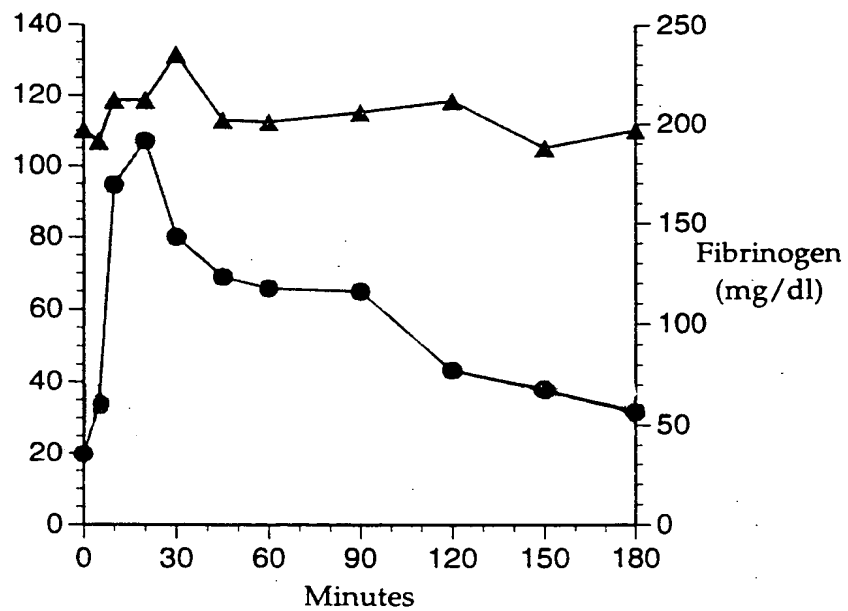
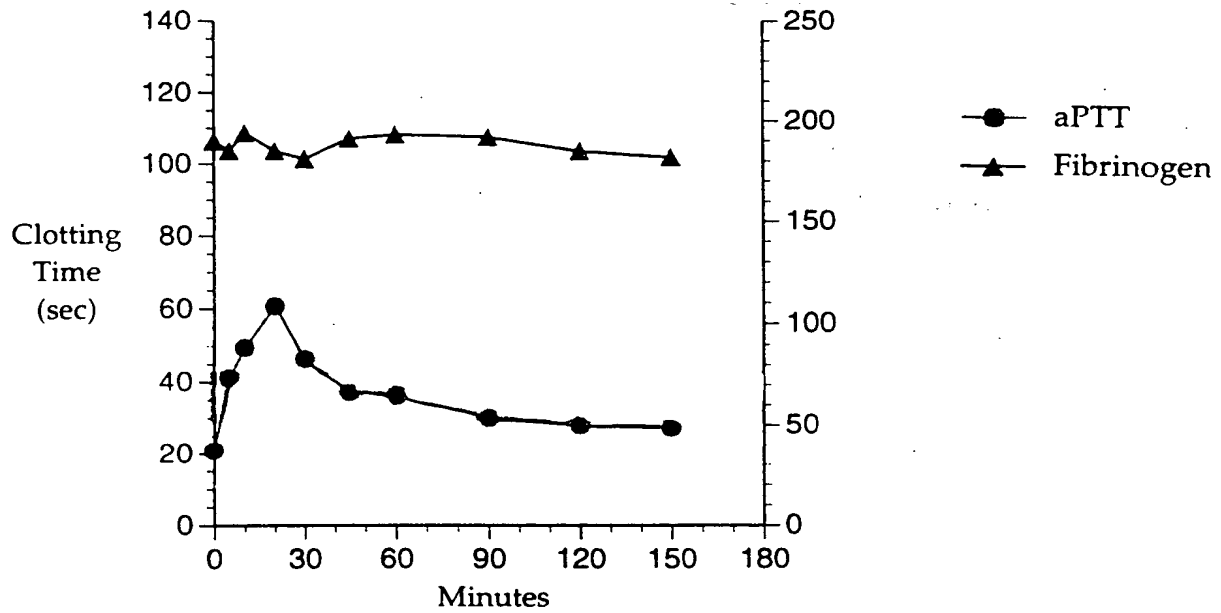


Figure 4

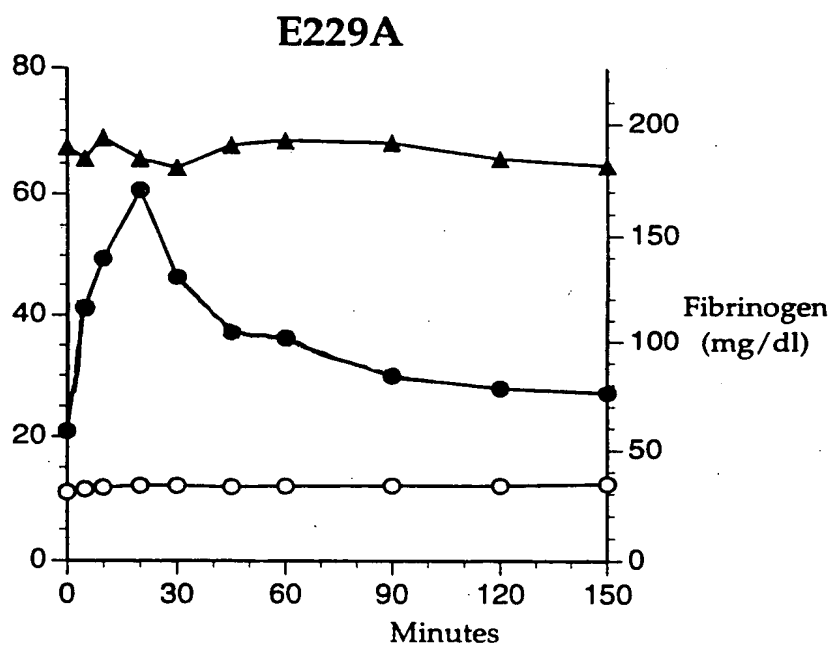
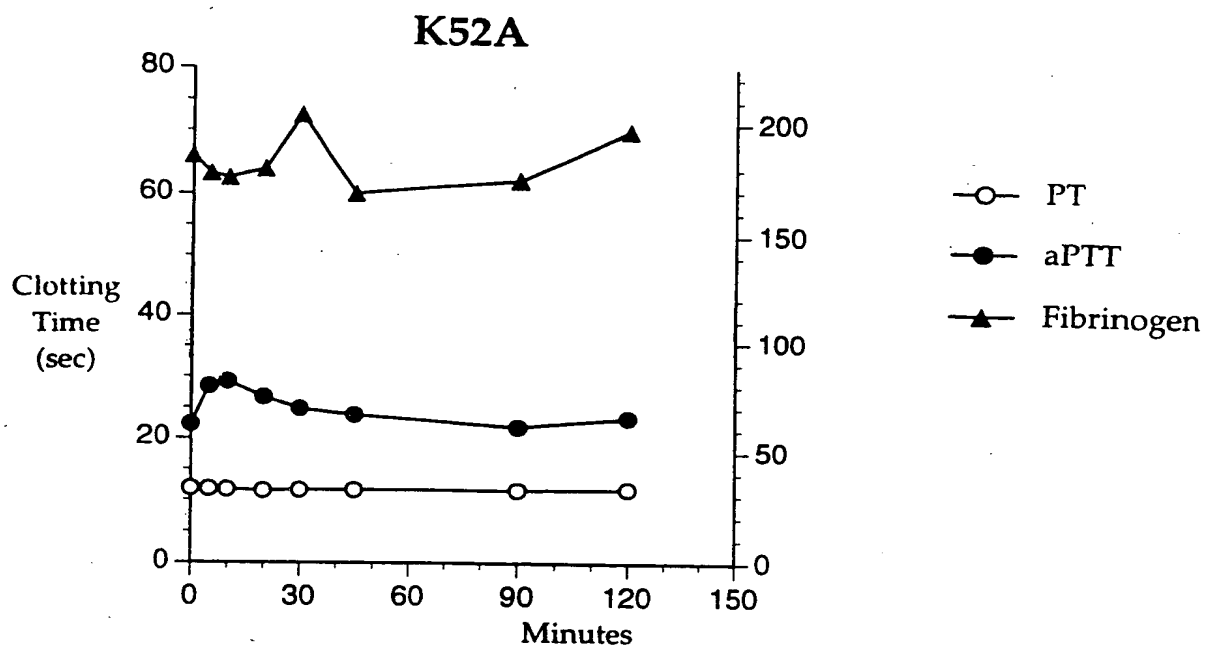


Figure 5

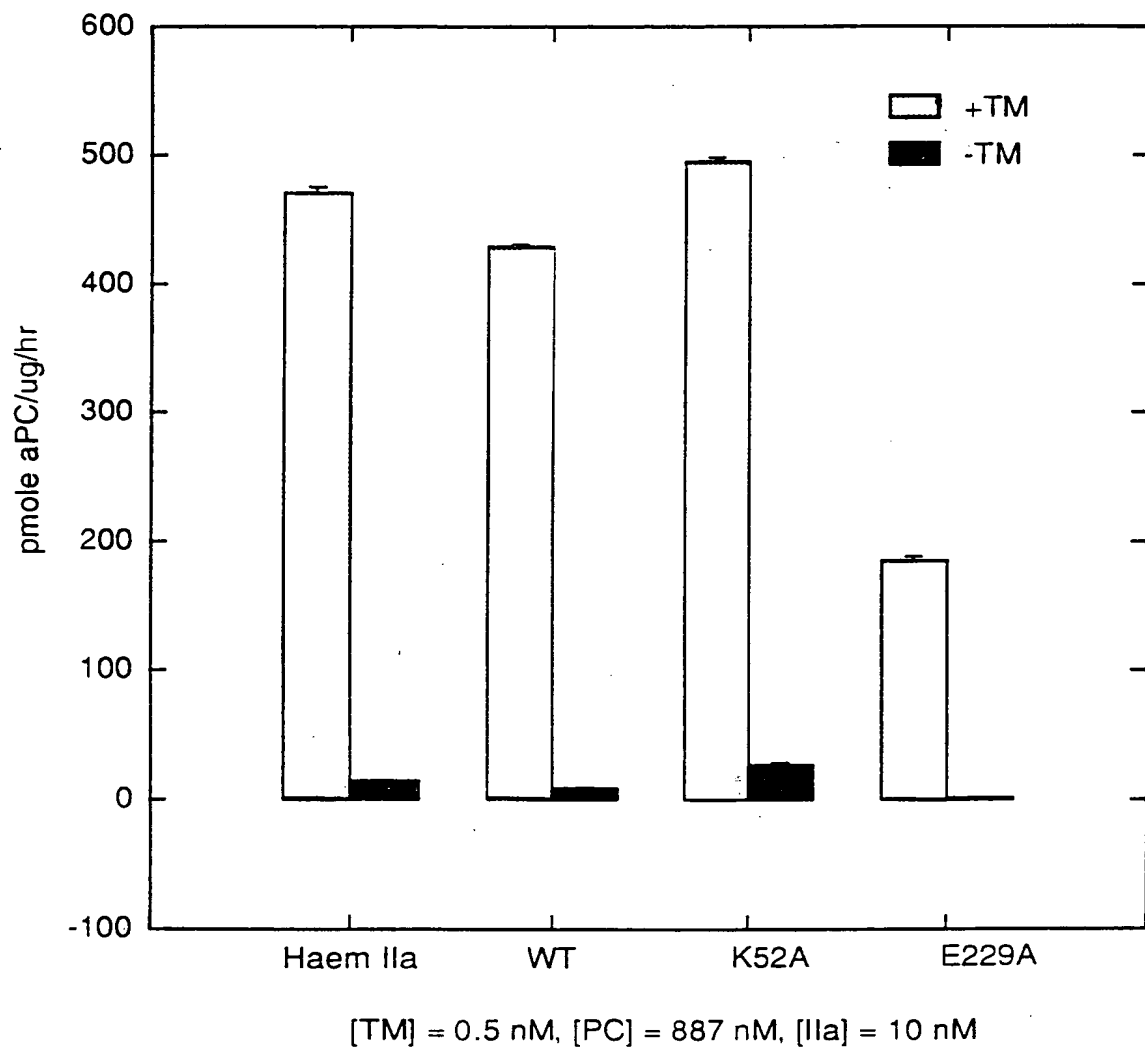


Figure 6

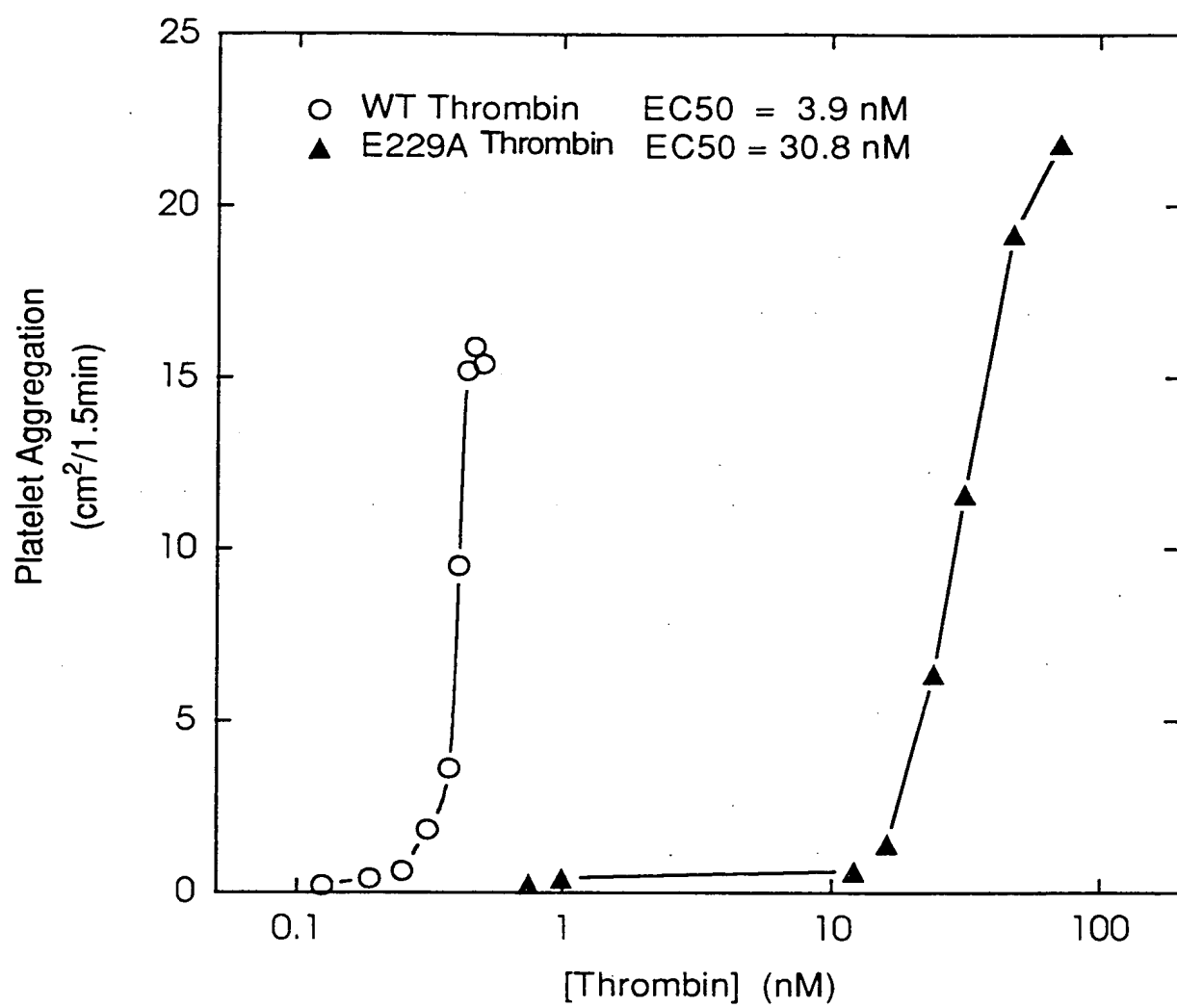


Figure 7